Achieving in Physics

WEB LINK

www.mcgrawhill.ca/links/physics12

This feature directs you to interesting and informative Internet sites. Access is easy when you use the Physics 12 Internet page links.

PROBEWARE

This logo indicates where electronic probes could be used as part of the procedure or as a separate lab.

The following Achievement Chart identifies the four categories of knowledge and skills in science that will be used in all science courses to assess and evaluate your achievement. The chart is provided to help you in assessing your own learning and in planning strategies for improvement with the help of your teacher.

You will find that all written text, problems, investigations, activities, and questions throughout this textbook have been developed to encompass the curriculum expectations of your course. The expectations are encompassed by these general categories: Knowledge/Understanding K/U, Inquiry I, Communication C, and Making Connections MC. You will find, for example, that questions in the textbook have been designated under these categories so that you can determine if you are able to achieve well in each category. Some questions could easily fall under a different category; for each question, the category chosen is the one with which it best complies. (In addition, problems that involve calculation have been designated either as practice problems or, in chapter and unit reviews, as Problems for Understanding.) Keep a copy of this chart in your notebook as a reminder of the expectations of you as you proceed through the course.

Achievement Chart

Knowledge/ Understanding	Inquiry	Communication	Making Connections
■ Understanding of concepts, principles, laws, and theories ■ Knowledge of facts and terms ■ Transfer of concepts to new contexts ■ Understanding of relationships between concepts	■ Application of the skills and strategies of scientific inquiry ■ Application of technical skills and procedures ■ Use of tools, equipment, and materials	■ Communication of information and ideas ■ Use of scientific terminology, symbols, conventions, and standard (SI) units ■ Communication for different audiences and purposes ■ Use of various forms of communication ■ Use of information technology for scientific purposes	■ Understanding of connections among science, technology, society, and the environment ■ Analysis of social and economic issues involving science and technology ■ Assessment of impacts of science and technology on the environment ■ Proposing courses of practical action in relation to science- and technology-based problems